

TOXICOLOGY (Sampling)

Test	Minimum Sample Required	Comments:	Approx Analysis Time (days)
Aflatoxin	1 lb. feed (grain)	No hay or silage	2-3
Anticoagulant (screen)	5 ml serum, blood (preferred), plasma, urine 10 g bait 20 g liver	Includes: Warfarin, Bromadiolone, Difenacoum, Brodifacoum, Diphacene, Chlorophacinone, Coumachlor, Coumatetralyl, Cumafuzyl, Difelthione, Flocoumafen, Pyranocoumarin Avoid submitting samples in medicine bottles. Do not freeze sample	2-3
Arsenic	10 g liver and kidney 10 ml urine 10 ml blood 10 g stomach contents 10 ml water 50 g soil 10 g feed	Liver or kidney is the preferred sample from a dead animal.	3-4
BUN	2 ml ocular fluid 2 ml serum or plasma		2-3
Calcium	2 ml ocular fluid 2 ml serum		1-2
Carbamate (Pesticide Screen)	10 g stomach contents 20 g rumen contents 10 g bait 20 g feed	Avoid submitting samples in medicine bottles or plastic containers. Glass is preferred.	2-4
Copper	5 ml serum 10 g liver or kidney 20 g feed	Liver is preferred over kidney.	1-3

1. Non-routine = Tests analyzed less than 2 times a year; expect > 10 days for analysis.
2. Completion of analysis in the time frames indicated depends on sample load and complexity of the test.

Test	Minimum Sample Required	Comments:	Approx Analysis Time (days)
Cyanide	Plants with cyanogenetic potential i.e. sorghums, sudan grass, corn 1 lb. dry plants 5 lb. wet plants 10 ml blood (preferred) 50 g muscle (heart) 20 g rumen content or stomach content	Samples should be quick frozen as soon as possible for shipment to the lab.	1-2
Dicumarol (Non-routine)	Feeds containing sweet clover 5 lb. wet plants 1 lb. dry plants 10 -20 ml blood		
Drug Screen *See end, for list of drugs included in screen.	10 - 20 ml serum, whole blood (plasma) 10 - 20 ml urine 10 g bait, pills 10 g stomach contents	Avoid submitting samples in medicine bottles. Urine is the preferred sample.	2-3
Ethylene glycol	5 ml urine 5 ml serum, plasma 10 g stomach contents 10 g bait		2-3
Fumonisin	1 lb. feed	No hay or silage.	3-4
Gossypol, free (Non-routine)	1 lb. feed containing cottonseed		
Iron (Non-routine)	10 ml serum		
Lead	5 ml blood, (EDTA, heparin) 10 g liver and kidney 10 ml water 10 g stomach contents	Heparin is preferred. Submit both liver and kidney.	3-4
Magnesium	2 ml ocular fluid 2 ml serum		1-2

Test	Minimum Sample Required	Comments:	Approx Analysis Time (days)
Monensin	1 lb. feed		4-5
Nitrate (qualitative)	2 ml ocular fluid		1-2
Nitrate (quantitative)	1 lb. dry forage 5 lb. wet forage 1 pt water		1-2
Ochratoxin	1 lb. feed (grain)	No hay or silage.	2-3
Organochlorines (pesticide screen)	10 g stomach contents 20 g rumen contents 10 g liver or fat 10 ml blood	Avoid submitting samples in medicine bottles or plastic containers. Glass is preferred.	2-4
Organophosphates (pesticide screen)	10 g stomach contents 20 g rumen contents 20 g feed	Avoid submitting samples in medicine bottles or plastic containers. Glass is preferred.	2-4
Potassium	2 ml ocular fluid 2 ml serum		2-3

Test	Minimum Sample Required	Comments:	Approx Analysis Time (days)
Selenium	10 g liver or kidney 10 ml whole blood 10 ml serum	Whole blood is preferred over serum.	3-4
Sodium (Non-routine)	2 ml ocular fluid 2 ml serum 2 ml urine 1 lb. feed		
Strychnine	10 g stomach contents 10 ml urine 5 ml serum 50 g kidney (more if available)	Avoid submitting samples in medicine bottles.	1-3
T-2	1 lb. feed (grain)	No hay or silage.	2-3
Urea (NPN) (Non-routine)	1 lb. feed		
Vomitoxin	1 lb. feed (grain)	No hay or silage.	2-3
Zearalenone	1 lb. feed	No hay or silage.	2-3
Zinc	10 g liver or kidney 5 ml serum 10 g stomach contents 1 lb. feed 5 ml serum	Serum sample should be in Royal blue top vacutainer tube for trace metal analysis.	2-3

***Drug Screen**

Drug Screen A					Drug Screen B		
Acetaminophen	Cocaine	Meperidine	Morphine	Pseudoephedrine	Amobarbital	Ethinamate	Phenytoin
Amitriptyline	Codeine	Meprobamate	Nicotine	Quinine	Aprobarbital	Glutethimide	Secobarbital
Amphetamine	Diazepam	Methamphetamine	Nortriptyline	Strychnine	Barbital	Pentobarbital	
Caffeine	Doxepin	Methadone	PCP	Trifluopromazine	Butabarbital	Phenobarbital	
Chlorpromazine	Imipramine	Methaqualone	Propoxyphen	Trimiprazine	Diazepam		

Call the lab if drug of interest is not listed.

10 gram of tissue is approximately equal in size to a golf ball.